

PNNL Environmental Management Performance Report

Monthly Report - December 1999

February 2000

**PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT**

**Pacific Northwest National Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

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The purpose of this monthly report is to provide the Department of Energy Richland Operations Office (DOE-RL) a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

Section A, Executive Summary, begins with the safety metrics status for all PNNL activities via graphics followed by senior management's overall performance assessment of all EM activities conducted at PNNL via a stoplight chart.

Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). Summary analyses pertaining to PNNL's support to other PBS's are addressed in the contractor's report having lead responsibility for that scope.

The "as of" dates for information are shown in the various sections as noted. If no date is shown the information is current as of December 26th.

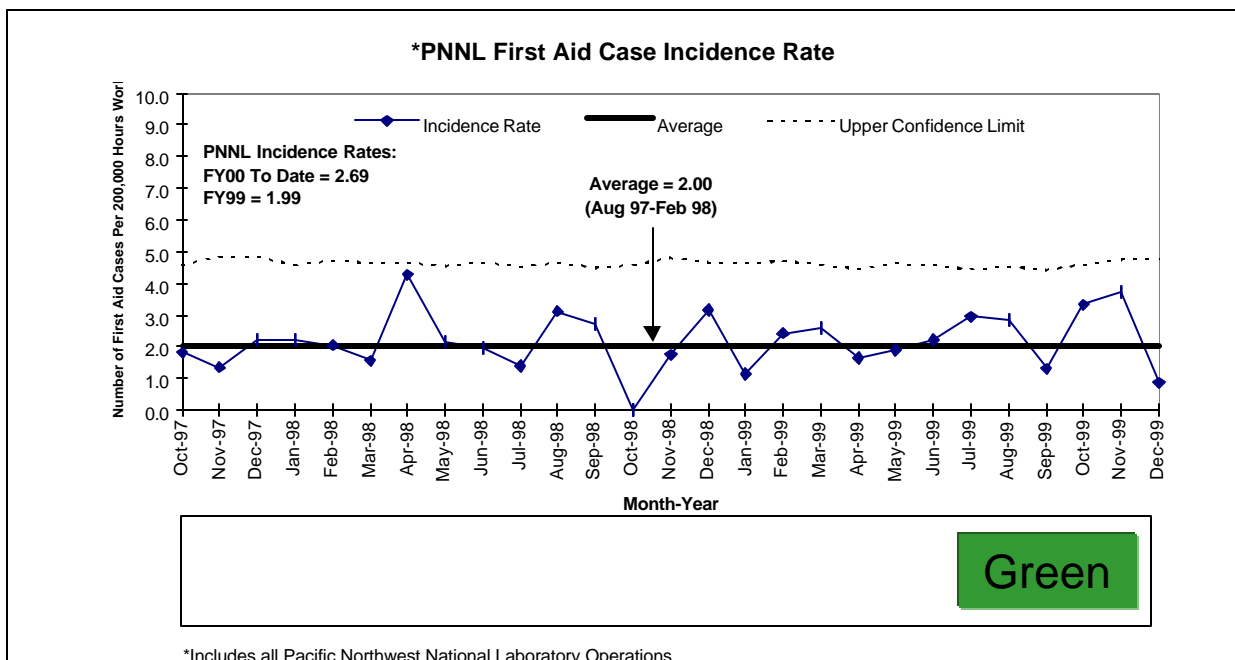
This section provides an executive level summary of performance information and is intended to bring to Management's attention that information considered to be most noteworthy. The section begins with overviews of safety followed by a spotlight chart on overall performance.

Safety Overview

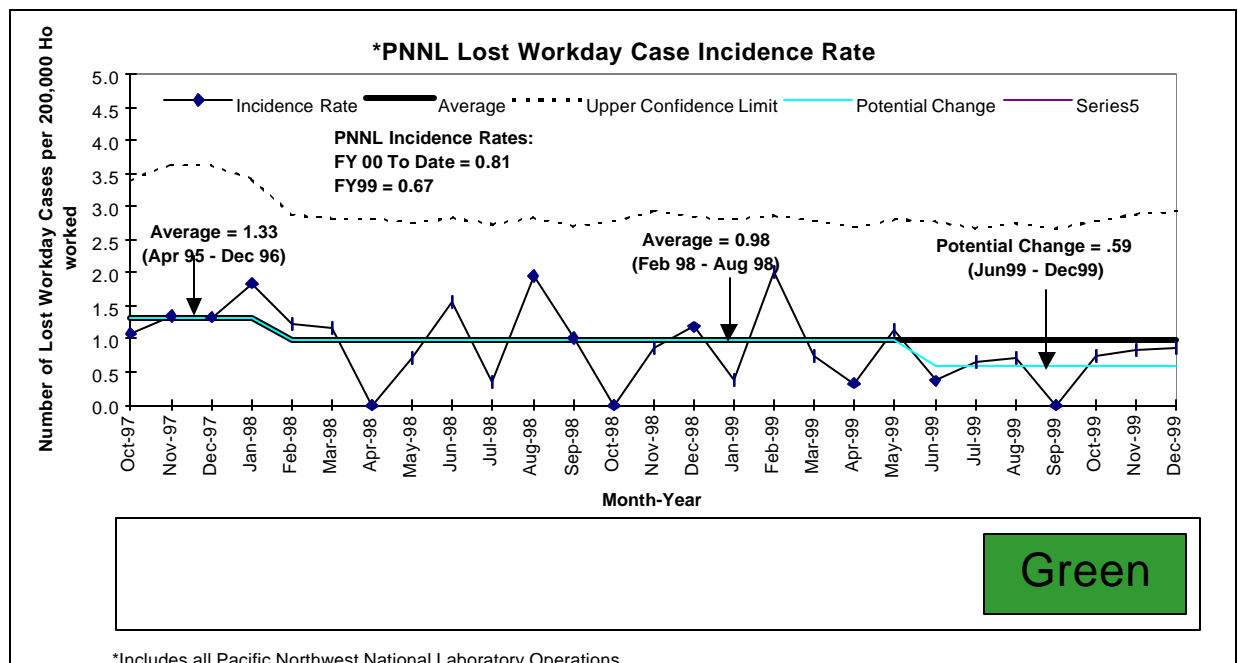
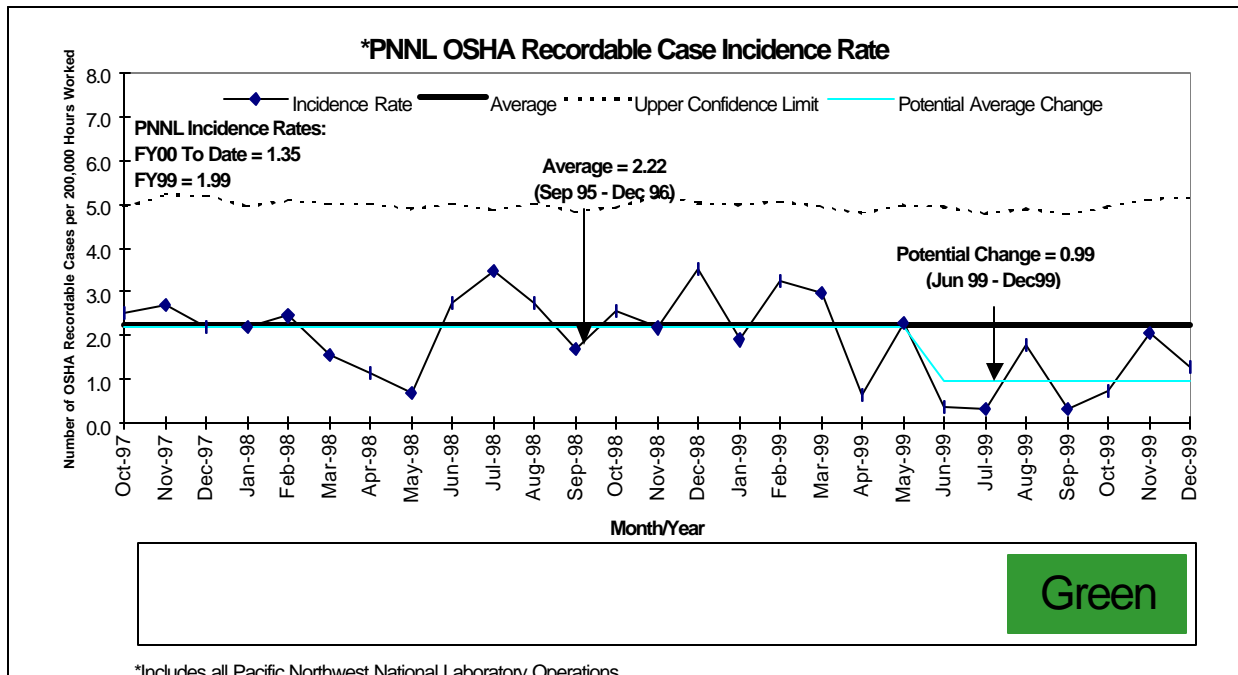
The focus of this section is to document trends in work related injuries and illnesses. Improvements in these rates are due to the efforts of the PNNL workforce as they implement the Integrated ES&H Management System (ISMS), work towards achieving Voluntary Protection Program (VPP) "star" status, and accomplish work through Enhanced Work Planning (EWP). Safety and health statistical data is presented in this section.

SIGNIFICANT SAFETY AND HEALTH EVENTS

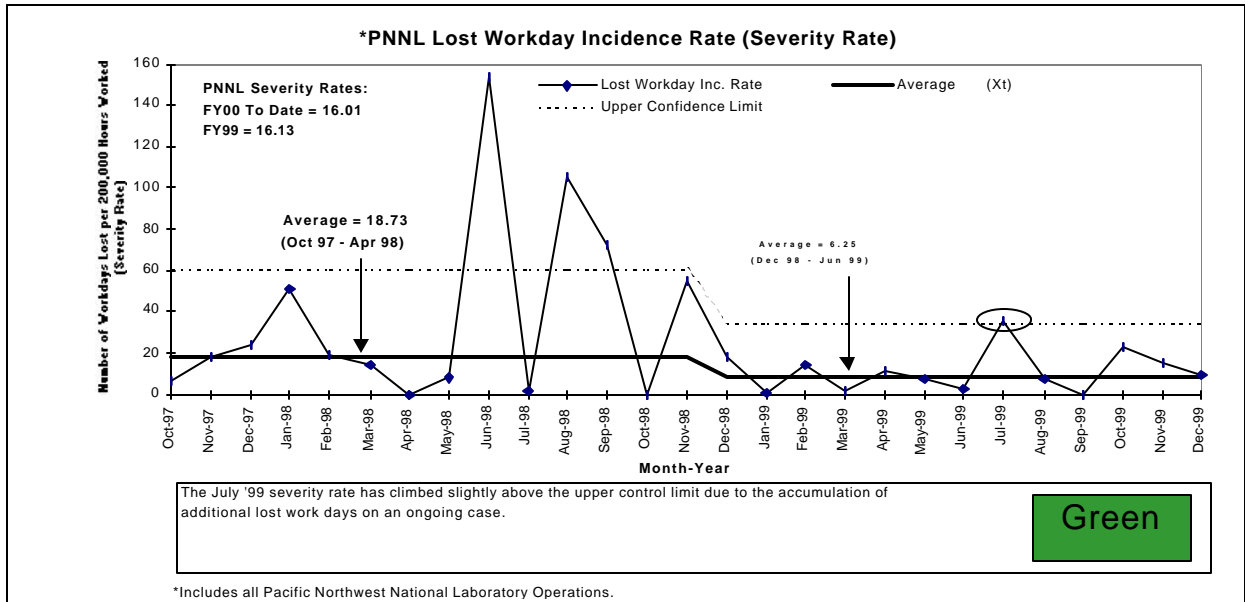
The PNNL OSHA Recordable Rate has been below the average for eight of the past nine months. Case reclassifications have removed the previously noted significant decrease in the lost and restricted workday case rate. However, the past seven months of data have been below average, indicating a significant decrease. The recordable and lost workday case rates have now been below the 2.22 and 0.98 averages respectively for the seventh month in a row. Due to the impending changes, potential average changes have been noted on the associated graphs. PNNL also experienced a notable change in the July 1999 severity rate, which pushed it slightly above the upper control limit. This change was due to the accumulation of additional lost workdays on an ongoing, July 1999 case.



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Section A - Executive Summary



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Section A - Executive Summary



Cost/Schedule Performance Stoplight

The following rating reflects overall performance for activities conducted by PNNL.
 (Narrative not required when rating is green.)



Green: Satisfactory
 Yellow: Significant improvement required
 Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, and upcoming baseline change requests for the period covered.. In Fiscal Year (FY) 2000, Battelle Memorial Institute has lead responsibility over PBS RL-ST01, PNNL Waste Management WBS 1.7.1.

Mission

WBS 1.7.1 provides PNNL with waste management services and compliant operations in support of science and technology development for the multi-program needs of the DOE Complex:

- Provides essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- Provides infrastructure required to manage wastes and effluents currently generated at the Laboratory
- Provides operational compliance services to meet regulatory requirements and operating permits including environment, safety & health regulations
- Manages legacy wastes and contamination remaining from past PNNL research operations.

Performance Data and Analysis

The cumulative cost variance of positive \$0.0M is not significant and it is expected that the baseline activities will be completed within funding allocation. The cumulative schedule variance of negative \$0.4M is primarily due to 1) delayed start in fabrication of drum handling system for high dose waste. Staff members determined that the inner shipping container would not meet the 4-foot drop scenario imposed by the safety analysis report for packaging (SARP). The inner container is being redesigned to ensure it will meet code requirements for a 4-foot “normal” drop; 2) fewer solid waste disposal shipments than estimated for this time of year; and 3) delays in completion of modifications to the Radioactive Liquid Waste System (RLWS). The RLWS delay has impacted cask shipments to the 200 Area for final disposition. The estimated usage date of the RLW tank is March 2000, which leaves only six months of the fiscal year to achieve a milestone that was planned to be accomplished in one full year. At this time, as much waste as possible is being held for the RLW tank when it comes on line.

A change request is in process to modify the RLWS baseline to reflect impacts of additional post start activities. Fluor Federal Services is presently reviewing these work process requirements to ensure that the estimate to complete and the remaining activities can be completed safely. The final RLWS tie-ins will begin the last week of January and be completed at the end of February. The project team will continue to monitor the remaining activities to closure.